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ABSTRACT

The third issue of this dissertation bibliography lists 283 doctoral theses in transportation, most of which were completed in 1969-1970. In addition to various aspects of transportation, the bibliography covers traffic analysis, urban travel analysis, and physical distribution. Entries include University Microfilms order number when available. A cumulated rank-order of U.S. universities by number of references, a geographic index, a subject index, and a cumulated author index are included. (BH)

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Doctoral Dissertations on Transportation 1970

A Bibliography

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CONTENTS

		entry numbers
Introduction		
1.0	Transportation - General	645-692
1.2	History	693-694
2.0	Air transportation	695-707
2.1	International	708-711
2.2	Local service	712
2.3	Cargo	713-715
2.4	Airports	716-726
2.5	Labor	727-728
2.6	Airplane industry	729-731
3.0	Road passenger transportation	732
4.0	Trucking	733-737
4.1	Labor	738
5.0	Automotive industry	739-750
5.1	Labor	751-754
6.0	Railroads	755-766
6.1	Labor	767-768
6.2	History	769-784
7.0	Marine transportation	785-790
7.2	History	791-792
7.3	Shipbuilding	793
8.0	Ports	794-799
9.0	Inland waterways	800-803
9.1	Canals	804-806
10.0	Pipelines	807
11.0	Urban transportation	808-816
11.1	Transit	817-821
11.2	Commuter railroads	822
12.0	Roads	823-831
12.1	Economic effects	832-842
12.2	Finance and investment	843-852
13.0	Traffic analysis	853-868
13.1	Control	869-871
13.2	Safety	872-895
14.0	Urban travel analysis	896-910
14.1	Commuting	911-918
15.0	Physical distribution	919-922
15.1	Warehousing	923-924
16.0	School transportation	925-927

Cumulated rank-order of U.S. universities by number of references

Geographic index

Subject index

Cumulated author index

INTRODUCTION

This third issue of the dissertation bibliography, containing 283 entries, covers mainly thesis production during 1969-1970. Dissertations from 1961 to 1968 are listed if missed in the two previous issues. A few 1971 references were available and are cited.

The basic sources used in compilation were: Massachusetts Institute of Technology, Abstract of Theses, 1963/64-1966/67; Dissertation Abstracts International, October 1969 A/B through May 1971 A/B; American Doctoral Dissertations, 1967/68; Journal of Business, January 1971; and American Journal of Agricultural Economics, November 1970 and May 1971.

Where available citations include University Microfilms order number.

The first issue of this bibliography was published in September 1968 (420 entries), covering 1961-67 and included an addendum to July 1968 (61 entries); the second issue was published in January 1970 (168 entries), covering mainly 1968 and part of 1969 thesis production. Total number of entries for the three issues is 932 including 4A, 7A, 421A, 421B, 440A and 446A. One entry, no.140, was erroneously duplicated by entry no.536.

Earlier issues of the bibliography may be purchased from the Transportation Center Communications Division, 1818 Hinman Avenue, Evanston, Illinois 60204.

1.0 TRANSPORTATION - GENERAL

645. Asfahl, Charles Raymond. Heuristic and dynamic programming generation methods for on-line storage and retrieval of freight rates by time-sharing computer. Arizona State, 1970. 294p. 70-21,952.

646. Billheimer, John W. Optimal route configuration with fixed link construction costs. Stanford, 1970.

647. Bozoki, George. Minimum-cost multi-commodity network flows. Purdue, 1969. 103p. 70-3857.

648. Chatterjee, Arun. An investigation of the feasibility of synthesizing mathematical models for forecasting travel on a regional highway network. North Carolina State, 1970. 117p. 71-10,320.

649. Elaassar, Samy Elsawy. A study of the impact of transportation costs for United States agricultural products on the European Economic Community and other countries. Maryland, 1969. 431p. 69-16,624.

650. Gamba, Juan Carlos. Theory and application of dynamic synthetic potential models. Pennsylvania, 1969. 325p. 70-16,147. Networks; Northeast Corridor.

651. Gessaman, Paul Hayden. A study of the impact of transportation on land use and rural life in four Southern Tier counties of New York. Cornell, 1970.

652. Glab, John Edward. Transportation's role in the development of southern Africa. American, 1970. 501p. 70-24,277.

653. Goldrick, M.K.D. The administration of transportation in Great Britain. London, 1967.

654. Hartwick, John Martin. Regional analysis by means of interregional input-output models and linear programming with applications to eastern Canada. Johns Hopkins, 1969. 340p. 70-11,787.

655. Jones, James Richard. An analysis of the effect of transportation costs on Arizona as a distribution center for the Southwest. Arizona State, 1969. 209p. 69-20,777.

656. Jones, John Fremon, Jr. Tourism as a tool for economic development with specific reference to the countries of Jamaica, Trinidad and Guyana. Florida, 1969/70.

657. Jordan, John Montague. Economic rationality in commodity flows - the case of the United States corn trade in 1964. Purdue, 1970. 222p. 71-2630.

658. Kahn, Ata Mohammad. Regional transport system plan selection problem: a decision theoretic framework for policy decisions. Waterloo, 1970.

659. Lev, Benjamin. Non iterative algorithm for solving special types of transportation problems. Case Western Reserve, 1970.

660. Lewis, Barbara Caroline. The Transporters' Association of the Ivory Coast: ethnicity, occupational specialization, and national integration. Northwestern, 1970. 577p. 71-1904.

661. Lieb, Robert Clarence. An examination of federal intermodal ownership policy related to common carriage in the United States. Maryland, 1970. 291p. 71-10,476.

662. Mertins, Herman. Dimensions of national transportation policy. Syracuse, 1970. 410p. 70-24,098.

663. Meuter, Ralph F. The influence of high volumes of traffic on the threshold populations of central place functions. Oklahoma, 1970. 153p. 70-23,986.

664. Meyburg, Arnim Hans. An empirical study of the relationship between the intercity passenger transportation system and the social state of metropolitan areas in the Northeast Corridor. Northwestern, 1971.

665. Nihan, Nancy Lucille. Development of a multi-modal optimal operations model for the Northeast Corridor: a linear programming formulation. Northwestern, 1970. 207p. 71-1928.

666. Ochoa-Rosso, Felipe. Search and choice in transport systems planning, v.3; applications of discrete optimization techniques to capital investment and network synthesis problems. M.I.T., 1968. Distributed by CFSTI AD-692-836.

667. O'Sullivan, Patrick M. Transport networks and the distribution of economic activities in the Republic of Ireland. London, 1967. Author's subsequent publication: Transport networks and the Irish economy. London School of Economics Geography Paper no.4, 1969.

668. Park, Rolla Edward. Transportation and efficient growth. Princeton, 1970. 140p. 70-19,798. Rand Corporation paper P-4239, November 1969.

669. Parker, Alan Jay. Optimizing a complex system: a simulation study of a commodity distribution system. Columbia, 1969. 175p. 70-17,040.

670. Pearson, Philip Michael Lee. The planning and evaluation of intercity travel systems. Waterloo, 1969.

671. Powers, Thomas Francis. Toward a more dynamic travel policy: a critical review of the U.S. Travel Service. Georgia State, 1969. 243p. 70-20,661.

672. Prawda, Juan. Multi-period, multi-echelon single commodity, stochastic, production-allocation systems, subject to joint linear programming and shipping constraints. Northwestern, 1970.

673. Putman, Stephen Howard. An economic model for forecasting employment by industrial sector in small sub-areas of a large region. Pittsburgh, 1969. 281p. 70-2056. Effect of changes in transport facilities.

674. Richter, Charles E. The impact of industrial linkages on geographic association. Illinois, 1969/70.

675. Seguin, Vernon Charles. An investigation of the factors inhibiting growth of containerization in domestic surface freight shipments. Michigan State, 1971. 314p.

676. Sen, Lolita. Optimization of plant location and transport operating decisions: a set of viable models for developing nations. Northwestern, 1970. 136p. 71-10,187. India and other areas.

677. Snow, Charles R. Freight transportation and economic activity: A national and regional analysis. Indiana, 1969. 195p. 70-19,264.

678. Sparling, Ronald L. Transportation of Indiana exports. Indiana, 1969. 225p. 70-15,569.

679. Strawn, Harry Boger. The effects of alternative modes of transportation on the optimum number, sizes and locations of major corn handling facilities in the Southeast. Tennessee, 1969. 302p. 70-17,852.

680. Stucker, James P. An econometric model of the demand for transportation. Northwestern, 1969. 202p. 70-6541.

681. Swain, Harry Sheldon. Central place networks. Minnesota, 1970. 379p. 70-20,240.

682. Taiber, David. An application of systems analysis to underdeveloped countries: farm-to-market transportation. Southern California, 1969. 245p. 69-19,409. Potatoes; Colombia.

683. Townsend, Henry. A new theory of micro-economic decision making as applied to two models of freight modal choice. New School of Social Research, 1969. 121p. 70-11,276.

684. Velde, Paul Dwight. The impact of transit and nontransit transportation rate structures on the soybean processing industry. Purdue, 1970. 506p. 70-18,760.

685. Wassom, John Clark. The relevance of the common carrier concept to the contemporary American transport system. Indiana, 1970. 281p. 71-6920.

686. Watson, Peter L. Analysis of the time factor in the appraisal of transport improvement schemes. Edinburgh, 1970.

687. Wilbanks, Thomas John. Accessibility and agricultural development: a system approach to an aspect of the economic development process. Syracuse, 1969. 478p. 70-15,226. India.

688. Womer, Norman Keith. Estimating the relations of an input-output model with variable coefficients. Pennsylvania State, 1970. 227p. 70-24,205.

689. Wortman, Robert Hilton. A study of terminals as a component of the transportation system. Illinois, 1970. 123p. 70-21,090.

690. Yaseen, D.W. The through route network and accessibility of towns in England and Wales. London, 1968.

691. Young, Dennis Ralph. Passenger transport scheduling. Stanford, 1969. 274p. 69-17,463.

692. Zucker, Seymour. The value of time in leisure travel by automobile. New School for Social Research, 1969. 116p. 70-7664.

1.2 TRANSPORTATION - HISTORY

693. Horna, Hernán. Francisco Javier Cisneros: a pioneer in transportation and economic development in Colombia. Vanderbilt, 1970. 349p. 70-24,871.

694. Thornton, Charles Arthur. The role of transportation (1790-1962): the implications in the decentralization and centralization of the wholesaling function in selected cities of East Tennessee. Tennessee, 1970. 330p. 71-7684.

2.0 AIR TRANSPORTATION

695. Carter, E.C. A feasibility study of V/STOL air transportation in the Appalachian regions. Northwestern, 1969. 70-23.

696. Fruhan, William Edward, Jr. The fight for competitive advantage under regulation: a study of the domestic trunk air carriers. Harvard, 1970.

697. Jenkins, Gerald Martin. The impact of air transportation on ranching decisions in Hawaii. Hawaii, 1969. 129p. 70-4310.

698. Joy, Okie Maurice. The value of limited monthly information in forecasting airline price relatives. North Carolina, 1969. 181p. 70-3263.

699. Lawrence, Peter Alvin. A technique for airline systems evaluations by regulatory authorities. Stanford, 1970. 169p. 71-12,938. Same title, Stanford University Department of Industrial Engineering, Technical report no.70-1, 1970.

700. Leidecker, Joel Karl. The economic feasibility of jet air transportation systems for underdeveloped countries. Washington, 1969. 109p. 69-20,249. Ethiopia.

701. Miller, James Clifford, III. Scheduling and airline efficiency. Virginia, 1969. 209p. 70-4816.

702. Miyagi, Michihiro. Impact of jet aircraft introduction to the airline network of the United States. Ohio State, 1969. 211p. 70-14,076. Covers 1959-1965.

703. Randall, Reed Heber. Supplemental airline fleet planning: a mathematical programming approach. California (Berkeley), 1969. 144p. 70-13,142.

704. Reckerd, Thomas Earl. A study of the role and responsibilities of the professional general aviation pilot in profit making organizations. Indiana, 1970. 185p. 70-17,241.

705. Schultz, Randall L. The development of a marketing planning model through simultaneous-equation multiple regression analysis: an airline study. Northwestern, 1970. 210p. 71-1966.

706. Shaw, Gordon Charlton. Contributions to transportation scheduling. Toronto, 1968. National Library of Canada microfilm. Airline passenger service.

707. Thiriez, Hervé. Airline crew scheduling: a group theoretic approach. Massachusetts Institute of Technology, 1969. 108p. Published by MIT Flight Transportation Laboratory, Rpt.R-69-1, Oct.1969.

2.1 AIRLINES - INTERNATIONAL

708. Buergenthal, Thomas. Law-making in the International Civil Aviation Organization. Harvard, 1967/68. Published in revised form by Syracuse University Press, 1969.

709. Chuang, Richard Yo. The International Air Transport Association: a case study of a quasi-governmental organization. Minnesota, 1970. 335p. 71-8132.

710. McMahon, James Anthony. Price determination by a cartel: a study of the International Air Transport Association's pricing of the economy class in the North Atlantic. Boston College, 1969. 151p. 70-12,606.

711. O'Connor, William E. International cooperation vs. nationalism in the economic regulation of the world's airlines. American, 1970. 297p. 70-24,282.

2.2 AIRLINES - LOCAL SERVICE

712. Pomeroy, Leslie Klett, Jr. An evaluation in terms of the public interest of the Civil Aeronautics Board's route strengthening policy for local service air carriers. American, 1970. 248p. 70-23,271.

2.3 AIR CARGO

713. Cotterman, William Woods. An analysis of the demand for domestic air freight. Georgia State College, 1969. 118p. 69-18,671.

714. Demakopoulos, Steve Andrew. Methods and efficacy of long-range industry forecasts: a case study of the domestic air cargo industry. New York, 1970. 961p. (2v.) 71-2278.

715. Wallace, R.S. A domestic multi-modal goods distribution model with emphasis on air cargo. Waterloo, 1970.

2.4 AIRPORTS

716. Doganis, R.S. The implication of the demand for air transport on airport planning for England and Wales. London, 1967.

717. Doherty, Richard Paul. The origin and development of Chicago-O'Hare International Airport. Ball State, 1970. 446p. 71-9048.

718. Graham, Ben Sanborn, Jr. Career mastery: a study of growth and decline of occupational identity among air traffic controllers at Los Angeles International Airport. California (Los Angeles) 1969. 343p. 70-2209.

719. Likens, James Dean. The welfare costs of non-optimal airport utilization: a case study of the Washington-Baltimore airports. Minnesota, 1970. 169p. 70-27,139.

720. Maddison, Donald. A model of the airfield surface system. California (Berkeley), 1970. 216p. 71-9752. Delay.

721. Odoni, Amedeo. An analytical investigation of air traffic in the vicinity of terminal areas. M.I.T., 1969. 203p. Distributed by NTIS: AD-700-814.

722. Shinn, Richard Duane. Regional airport planning: a systematic model. Washington, 1969. 327p. 69-20,272.

723. Simpson, Robert W. An analytical investigation of air traffic operations in the terminal area. M.I.T., 1963/4. 438p.

724. Sternberg, Carl Waldemar. Tripartite federalism: the impact of New York State "buying into" the Federal-Aid Airport Program. State University of New York (Albany), 1970. 337p. 70-25,482.

725. Steuart, Gerald Neil. Utilization of gate positions at metropolitan airports. California (Berkeley), 1970. 71-848
Also distributed by University of California Institute of Transportation and Traffic Engineering.

726. Wood, Donald Frank. Statewide general aviation airport planning: an application of benefit-cost analysis. Harvard, 1969. 166p.

2.5 AIR TRANSPORTATION - LABOR

727. Hopkins, George Emil. The Air Line Pilots Association (AFL-CIO): a study in elite unionism. Texas, 1969. 332p. 70-10,812. Covers through 1930's.

728. Simons, Robert Marchand. Manpower projections, recruitment needs and training requirements for commercial airline pilots in the United States 1968-1979. Southern California, 1969. 280p. 69-16,565.

2.6 AIRPLANE INDUSTRY

729. Bruins, Richard George. Federal aerospace procurement and local income: a case study of the aerospace industry in St.Louis. Washington (St.Louis), 1970. 161p. 70-18,917. McDonnell Douglas.

730. Shin, Tai Saeng. A financial analysis of the airframe-turned aerospace industry. Illinois, 1969. 229p. 70-977.

731. Walterman, Thomas Worth. Airpower and private enterprise: federal-industrial relations in the aeronautics field, 1918-1926. Washington, 1970. 590p. 70-26,886.

3.0 ROAD PASSENGER TRANSPORT

732. Williams, W.I. The economics analysis of bus and coach licensing decisions under the Road Traffic Acts of 1930 and 1960. London, 1968.

4.0 TRUCKING

733. Darby, Larry Franklin. An evaluation of federal regulation of common motor carriage. Indiana, 1969. 228p. 70-10,253.

734. Ellett, John Spears. Interstate corporate income taxation of truckers and movers. North Carolina, 1969. 593p. 70-12,053.

735. Harral, Clell Gaurey. The social costs of highway transport in Eastern India. Rochester, 1969. 191p. 70-2868.

736. Riddle, William Edward. Alternative transport systems for ice cream manufacturers. Pennsylvania State, 1969. 214p. 70-7242.

737. Viets, Robert Lee. Financial aspects of the class I, group C motor carriers of general commodities since 1957. Texas, 1970. 209p. 71-206.

4.1 TRUCKING - LABOR

738. Arnold, Thomas Richard. The Teamsters Union as a determinant of the structure of the trucking industry. Syracuse, 1970. 193p. 71-10,886.

5.0 AUTOMOTIVE INDUSTRY

739. Ackerman, Susan Rose. The demand for used automobiles in the United States - 1954-1966. Yale, 1970. 167p. 70-25,224.

740. Claus, James. The spatial dynamics of a population of gasoline service stations. California (Berkeley), 1969.

741. Croll, Robert Frederick. Government regulation of automobile distribution, 1933-1963: an economic analysis of its causes and consequences. Indiana, 1969. 591p. 70-10,577.

742. Gieselman, Robert Dale. Automobile brand loyalty. Illinois, 1969. 131p. 70-853.

743. Katz, Harold. The decline in competition in the automobile industry, 1920-1940. Columbia, 1970. 519p. 70-23,446.

744. Kittrell, Frederick Jones. Profit forecasting tools and quantitative techniques for improved financial and managerial control in an automobile dealership. Mississippi, 1970. 293p. 70-24,327. Chevrolet.

745. Maricle, Kenneth E. An analysis of automobile leasing. Arizona State, 1970. 231p. 70-24,404. Maricopa County.

746. Nelson, Steven Robert. An economic analysis of antitrust policy in the automotive parts industry. Wisconsin, 1970. 285p. 71-308. 1939 to date.

747. Ramm, Wolfhard. The valuation and estimation of automobile services, 1961-1968. Northwestern, 1971.

748. Staelin, Richard. Information seeking and duration of the purchase decision process for new cars and major household appliances. Michigan, 1969. 401p. 70-14,650.

749. Stockdale, John Martin. An analysis of private passenger automobile underwriting. Iowa, 1970. 164p. 71-5831.

750. Westacott, George Henry. The Peruvian automobile industry: a socio-economic and organizational inquiry. Cornell, 1970. 279p. 70-14,409.

5.1 AUTOMOTIVE INDUSTRY - LABOR

751. Caspi, Amnon. Turnover of local union officers: an organizational analysis. Michigan State, 1970. 139p. 70-20,443. U.A.W.

752. Drost, Jim L. Job characteristics of automotive mechanics in selected Iowa dealerships and garages. Iowa State, 1970. 137p. 71-7261.

753. Hall, Ronald Walter. A study to determine the educational needs of industrial technologists in the automotive type manufacturing industries. Arizona State, 1970. 161p. 70-19,926.

754. Johnson, Lawrence Alexander. Study of the Ford Motor Company's inner-city hiring program (Detroit, Michigan). Stanford, 1970. 109p. 71-12,928.

6.0 RAILROADS

755. Barr, Brenton M. The role of transfer costs in the location and flow patterns of the Soviet wood-processing industry. Toronto, 1968. Available from National Library of Canada on microfilm. Subsequent publication based on this dissertation: The Soviet wood-processing industry, a linear programming analysis of the role of transportation costs in location and flow patterns, University of Toronto Press, 1970. Rail.

756. Bergmann, Dietrich Rudolf. Sensitivity of passenger railway system performance to technical and operational innovation. Stanford, 1969. 330p. 70-10,426. Also published by Stanford University.

757. Boone, James Weston. The econometric forecasting of national rail car requirements for bituminous coal. Pennsylvania State, 1970. 171p. 70-24,145.

758. Buckwell, Lloyd John. Variable costs for internal management: a case study of a railroad. Minnesota, 1969. 203p. 69-20,005.

759. Chen. Chuan-Yu Ed. Estimating cost functions for the United States railroads. New York, 1969. 110p. 70-3049.

760. Eicher, John Paul. An investigation of the requirements for collision avoidance systems at railroad-highway grade-crossings - a simulation model. Catholic, 1970. 264p. 70-22,129.

761. Gallamore, Robert Edmund. Railroad mergers: costs, competition and the future organization of the American railroad industry. Harvard, 1967/68.

762. Hamburg, James Frederic. The influence of railroads on the processes and patterns of settlement in South Dakota. North Carolina, 1969. 500p. 70-3240.

763. McCall, John Byron. An economic study of railroad passenger service: the Santa Fe and Southern Pacific Railroads, 1950-1965. Oklahoma State, 1968. 165p. 69-14,279.

764. Roman, James Rudolph, Jr. Opportunities for railroad passenger service in the northeast corridor. George Washington, 1970. 220p. 71-5369.

765. Sundaralingam, K. The role of railway transport in Ceylon: present problems and future prospects. London, 1968.

766. Ventura, Jack Sal. Railroad freight cars economic models of investment and allocation. Georgetown, 1970. 397p. 70-23,813.

6.1 RAILROADS - LABOR

767. Desmarais, Ralph Henry. The Supply and Transport Committee, 1919-1926: a study of the British government's method of handling emergencies stemming from industrial disputes. Wisconsin, 1970. 280p. 70-19,139. Rail.

768. Lightner, David Lee. Labor on the Illinois Central Railroad, 1852-1900. Cornell, 1969. 427p. 70-5777.

6.2 RAILROADS - HISTORY

769. Albro, Martin. Enterprise denied: the impact of rate regulation on the growth of American railroads, 1897-1917. Columbia, 1970. To be published by Columbia University Press, 1971.

770. Baehr, George Bernard, Jr. The attempt at a transportation empire in New England: the New York, New Haven and Hartford Railroad, 1872-1913. Notre Dame, 1969. 586p. 70-7885.

771. Bonavia, M.R. The organisation of British railways 1948-1964. London, 1968.

772. Dick, Trevor John Orme. An economic theory of technological change: the case of patents and limited states railroads 1871-1950. Washington, 1970. 155p. 71-8481.

773. Frey, Robert Lovell. A technological history of the locomotives of the Northern Pacific Railway Company. Minnesota, 1970. 750p. 70-27,117.

774. Haywood, Richard Mowbray. The beginning of railway development in Russia in the reign of Nicholas I: 1835-1842. Columbia, 1966. 434p. 70-6699. Same title, Duke University Press, 1969.

775. Hoffman, Donald Stone. Railways and railway politics in south Germany: defensive particularism at the state level, 1835-1970. Delaware, 1969. 331p. 69-16,592.

776. Miner, Harold Craig. The thirty-fifth parallel project: the formation of a St.Louis-San Francisco railway system, 1853-1890. Colorado, 1970. 366p. 70-23,735.

777. Reeder, Clarence A., Jr. The history of Utah's railroads 1869-1883. Utah, 1970. 473p. 70-23,828.

778. Ross, Delmer Gerrard. The construction of the railroads of Central America. California (Santa Barbara), 1970. 512p. 71-12,517.

779. St.John, Jacqueline D. John F. Stevens: American assistance to Russian and Siberian railroads, 1917-1922. Oklahoma, 1969. 348p. 69-21-992.

780. Saunders, Richard Leroy, Jr. Railroad consolidation in the Eastern United States, 1940-1964. Illinois, 1971. 2v.

781. Smith, Robert David, Jr. Cost problems of the Rutland Railroad and its successors from - 1937 to 1968. Massachusetts, 1970. 321p. 71-2725.

782. Raylor, Patrick Robinson. The Trans-Siberian Railroad and the Russian Revolution of 1905. Tennessee, 1969. 487p. 70-7604.

783. Upson, Helen Rena. Order and system: Charles Francis Adams, Jr. and the railroad problem. Iowa, 1969. 320p. 69-21-740.

784. Voelker, Gottfried Eberhard. The impact of railroads on the German economy in the late nineteenth century. Nebraska, 1970. 167p. 71-2934.

7.0 MARINE TRANSPORTATION

785. Athay, Robert E. An economic appraisal of Soviet merchant shipping policy. American, 1969. 209p. 60-17,853.

786. Johannsson, Kjartan. A heuristic approach to the multi-discharge routing problem. Illinois Institute of Technology, 1969. 137p. 69-19,730. Tank ships.

787. Lubore, Stephen Hugh. Extensions of the tanker scheduling problem. Johns Hopkins, 1969. 131p. 69-21,079.

788. McDonald, Hugh John. A linear programming model to optimize the transfer cost and facility requirements for U.S. grain exports. Ohio State, 1969. 252p. 69-23176.

789. Marcus, Henry Stuart. A management rationale for planning ship replacement in the subsidized liner fleet. Harvard, 1970. 253p.

790. Metaxas, B.N. Some economic problems of the tramp shipping industry. London, 1967.

7.2 MARINE TRANSPORTATION - HISTORY

791. Linder, Elisha. The maritime text of Ugarit; a study in late Bronze Age shipping. Brandeis, 1970. 249p. 70-25, 577.

792. Yates, Richard Croson. The cost of ocean transportation between England and Jamaica: 1784-1788. Washington, 1969. 296p. 70-8436.

7.3 SHIPBUILDING

793. Crowther, Simeon John. The shipbuilding industry and the economic development of the Delaware Valley, 1681-1776. Pennsylvania, 1970. 247p. 71-7796.

8.0 PORTS

794. Amoah, Frank Emmanuel. The growth and decline of seaports in Ghana: 1800-1962. California (Los Angeles), 1969. 269p. 70-14,253.

795. Dickason, David Gordon. The efficiency of the major Indian seaports. Indiana, 1970. 240p. 71-6840.

796. Dohlen, Gerard Nicholas von. The investment decision making process of the Port of New York Authority: a benefit-cost study. Columbia University, 1970. 406p. 70-18,866. Second level, George Washington Bridge.

797. Hutcheon, William Richmond, Jr. A cost-benefit analysis of Seattle foreign-trade zone no.5. Washington, 1969. 111p. 69-20,239.

798. Mihelič, Dusan. The political element in the port geography of Trieste. Chicago, 1969. Chicago. University. Department of Geography. Research series no.126, 1969.

799. Robinson, Ross. Spatial structuring of port-linked flows: the port of Vancouver, Canada, 1965. British Columbia, 1968.

9.0 INLAND WATERWAYS

800. El-Mezawie, Ali Abd El-Salam. A mathematical model for the ultimate tow size for navigation of sharp bends on the lower Mississippi River. Texas, 1970. 87p. 70-18,225.

801. Haites, Erik Friso. Ohio and Mississippi River transportation 1810-1860. Purdue, 1969. 277p. 70-8895.

802. Schoell, William Frederick III. Causes and effects of the recent growth in barge transportation: with emphasis on the period 1953-1964. Arkansas, 1969. 497p. 70-376.

803. Sydor, Leon Paul. The St.Lawrence Seaway: national shares in primary seaway benefits. Princeton, 1970. 305p. 70-19,803.

9.1 CANALS

804. Barber, Henry Eugene. The history of the Florida cross-state canal. Georgia, 1969. 318p. 70-10,154.

805. Filante, Ronald William. An inquiry into the sources of surplus revenues on the Erie Canal 1825 to 1860. Purdue, 1969. 220p. 70-8888.

806. Richard, Alfred Charles, Jr. The Panama Canal in American national consciousness, 1870-1922. Boston, 1969. 309p. 69-18,740.

10.0 PIPELINES

807. Babcock, Henry Ame. The pipeline transportation of solids. Colorado, 1970. 153p. 71-5865.

11.0 URBAN TRANSPORTATION

808. Cockfield, Richard W. A design method for the preparation of a preliminary urban land use/transport plan. Waterloo, 1970. Same title, Department of Civil Engineering, University of Waterloo, May 1970, 126p.

809. Hall, William King. A queueing theoretic approach to the allocation and distribution of ambulances in an urban area. Michigan, 1969. 277p. 70-14,535.

810. Hallin, Richard Ray. The Tri-State Transportation Commission: a capability analysis of a metropolitan policy subsystem. Columbia, 1969. 554p. 69-15,674.

811. Jeffress, Philip Wade. Racial employment patterns in the urban mass transportation industry. Kentucky, 1969. 164p. 70-16,974.

812. O'Connor, Arthur D. The offspring generation method of designing minimum cost and user acceptable guideway configurations for automated transportation systems. State University of New York (Buffalo), 1970. 365p. 71-7202.

813. Rea, John C. Designing urban transportation system: an approach to route-technology selection problem. Washington, 1971.

814. Saatcioglu, Omer. Highway and transit capacity additions to urban transportation networks. Pittsburgh, 1970. 246p. 71-9030. Pittsburgh as case.

815. Woodhull, Joel. Urban public transportation: specification of service parameters for a two-mode cooperative hierarchy. Rensselaer Polytechnic Institute, 1970. 181p. 71-12,833. Travel time.

816. Zakaria, Thabet. Transportation systems evaluation: toward a method and a set of criteria for evaluating alternative transportation plans for urban regions. Pennsylvania, 1968. 227p. 69-15,142.

11.1 TRANSIT

817. Dicesare, Frank. A systems analysis approach to urban rapid transit guideway location. Carnegie-Mellon, 1970. 227p. 70-21,588.

818. McDonald, William Smith. The Union Traction Company of Indiana. Ball State, 1969. 167p. 69-16,579.

819. Osuna, Edgar Elias. Control strategies for idealized bus systems. California (Berkeley), 1969. 86p. 70-17,635.

820. Peterson, Thomas Charles. An economic evaluation of the Southern California Rapid Transit District: its proposed solution to the transportation problem in Los Angeles. California (Los Angeles), 1970. 249p. 71-675.

821. Williams, Thomas Arthur. Scheduling algorithm for a demand-response bus system. Rensselaer Polytechnic Institute, 1970. 166p. 71-12,831. Dial-A-Bus.

11.2 COMMUTER RAILROADS

822. Salzborn, F.J.M. Mathematical models for the optimum scheduling of commuter trains. Adelaide, Mar.1970. 68p.+ Application to Adelaide.

12.0 ROADS

823. Albert, W.I. The road transport system in England 1700-1839. London, 1968.

824. Berg, William Douglas. An analysis of the local rural road administrative system in Illinois. Illinois, 1970. 137p. 71-5041.

825. Brach, Philip Louis. A method for establishing priorities among urban road improvement projects. Catholic, 1969. 106p. 70-3463. Travel time.

826. Chatfield, Benjamin Vantine. Application of formal logic to administration of the federal-aid highway program. Stanford, 1969. 197p. 69-17,403. Use of artificial language devised by Rudolf Carnays for logical analysis of laws.

827. Manheim, Marvin L. Highway route location as a hierarchically-structured sequential decision process, an experiment in

the use of Bayesian decision theory. M.I.T., 1964. 199p. Issued as M.I.T. CE Res.Rpt.R64-15.

828. Sachdev, Labh Singh. Planning rural highways in India. Washington, 1970. 280p. 71-1021.

829. Schlacter, John Lathrop. Increased participation in the decision-making process among field crews in the Ohio Department of Highways: a field experiment. Ohio State, 1969. 218p. 70-14,093.

830. Turner, Alan Keith Finlay. Computer-assisted procedures to generate and evaluate regional highway alternatives. Purdue, 1969. 314p. 69-17,283.

831. Witczak, Matthew Walter. A generalized investigation of selected highway design and construction factors by regional geomorphic units within the continental United States. Purdue, 1970. 420p., 2v. 70-22,027.

12.1 ROADS - ECONOMIC EFFECTS

832. Bishop, Alvin Bruce. Socio-economic and community factors in planning urban freeways. Stanford, 1970. 231p. 70-18,380. Same title, Stanford University Programs in Engineering Economic Planning, 1969.

833. Dommel, Paul Robert. Intergovernmental and administrative factors in environmental policy research: a case study of highway and land use policies in Massachusetts. Massachusetts, 1970. 291p. 71-8608.

834. Gould, Robert Barris. Strip highway settlement: a case study of the area in the vicinity of U.S. route 60 in eastern Kentucky hills region. Tennessee, 1969. 123p. 70-7567.

835. Hafner, James Allan. The impact of road development in the central plain of Thailand. Michigan, 1970. 324p. 71-4620.

836. Hall, Jerome William. The impact of urban freeways on highway user benefits. Washington, 1969. 169p. 70-14,759. Seattle example.

837. Isibor, Edward Iroguehi. Modeling the impact of highway improvements on the value of adjacent land parcels. Purdue, 1970. 222p. 70-18,672. Same title, issued as Purdue University report.

838. Kuehn, John Allan. Highway impacts in Ozark incomes and employment. Missouri, 1971. 112p. 71-3351.

839. McBride, George Adams. A plan formulation methodology for the Appalachian Development Highway System. North Carolina, 1969. 178p. 70-3280.

840. Martinson, Tommy Lee. Selected changes in agricultural production and economic rent along the Western Highway of Honduras: 1952-1965. Kansas, 1969. 221p. 70-11,052.

841. Pool, John Charles. A posteriori evaluation of the economic and social effects of investments in transportation infrastructure: the Mexican Nayarit-Jalisco coastal highway: a case study. Colorado, 1969. 282p. 70-5885.

842. Soberman, Richard Martin. Road transport and economic development in the Venezuelan Guayana. M.I.T., 1963/4. 336p.

12.2 ROADS - FINANCE AND INVESTMENT

843. Agnello, Richard J. The second Chesapeake Bay bridge: a cost-benefit study in public highway investment. Johns Hopkins, 1970. 172p. 70-26,740.

844. Johnson, Larry Ray. A competitive model for highway construction proposals. Oklahoma State, 1969. 163p. 70-21, 417.

845. Lamb, Steven Ward. The determination of the benefits of economics of scale as applied to rural road systems in Kansas. Kansas State, 1970. 201p. 71-11,325.

846. Lapin, Howard S. New approaches to analysis of projects to extend all-weather roads into areas of agricultural potential. Catholic, 1969. 112p.

847. Hejal, Salim Said. An economic priority model for rural highway improvements. Purdue, 1971. 126p. Purdue University Joint Highway Research Project, December 1970, no.28.

848. McFarland, William Franklin. Economic efficiency in highway expenditures. Tulane, 1970. 205p. 70-24,535. Cost-benefit.

849. Olson, Kent William. Expenditure criteria for the development of the National Forest road system. Oregon, 1969. 305p. 70-15,349.

850. Payne, Brian Randolph. An economic analysis of alternative rates of investment in National Forest road construction: the North Umpqua case. California (Berkeley), 1969. 210p. 70-17,639.

851. Thornton, Neal Blair. The politics of the Chesapeake Bay Bridge-Tunnel. Virginia, 1969. 244p. 70-4836.

852. Vars, Raymond Charles, Jr. The tax cost of freeways in San Francisco. California (Berkeley), 1969. 133p. 70-6250.

13.0 TRAFFIC ANALYSIS

853. Ashton, Winifred D. Problems in the theory of road traffic flow. London, 1969.

854. Bettinger, Charles Ollie, III. Estimation and prediction of interzonal traffic flows using quantitative models. Texas, 1969. 139p. 70-10,749.

855. Brill, Edward Abe. Stochastic models of vehicular traffic congestion. Stanford, 1970. 96p. 71-12,861.

856. DeWald, Charles Griffith. Constrained flow models for traffic network analysis. Johns Hopkins, 1968. 193p. 71-2944.

857. Dial, Robert Barkley. Probabilistic assignment: a multipath traffic assignment model which obviates path enumeration. Washington, 1970. 164p. 71-960.

858. Emerson, Charles Robert. A parking analysis and planning technique. Purdue, 1970. 275p. Campus parking.

859. Heathington, Kenneth Wayne. On the development of a freeway driver information system. Northwestern, 1969. 297p. 70-65.

860. Hoshi, Takao. Some queueing problems generated by an intersection. Johns Hopkins, 1970. 96p.

861. Kanafani, Adib. The location of parking facilities in town centers. California (Berkeley), 1969. 160p. 70-6133.

862. Kirk, Billy Mac. Human factors in the moving merge process. Texas A&M, 1969. 162p. 70-9693.

863. Lehoczky, John Paul. Stochastic models in traffic flow theory: intersection control. Stanford, 1969. 107p. 70-10,482.

864. Levin, Moshe. Some investigations of the freeway lane changing process. Texas A&M, 1970. 242p. 71-8892.

865. Shorrock, Richard William. Caravans in traffic flow. Stanford, 1970. 89p. 71-2830.

866. Tolle, John Edward. The distribution of vehicular headways - a stochastic model. Ohio State, 1969. 135p. 69-22,220.

867. Weiner, Sidney. Queuing models for passing delays on two and three lane freeways. George Washington, 1970. 254p. 71-12,305.

868. Yagar, Samuel. Analysis of the peak period travel in a freeway-arterial corridor. California (Berkeley), 1970. 201p. 71-9961. Traffic assignment.

13.1 TRAFFIC CONTROL

869. Messer, Carroll Joe. A design and synthesis of a multilevel freeway control system and a study of its associated operational control plan. Texas A&M, 1969. 180p. 70-11,561.

870. Panyan, Wayne David. Urban traffic system simulation and control. Michigan State, 1969. 138p. 70-15,101.

871. Rashba, Sheldon Franklin. Freeway management and control. Polytechnic Institute of Brooklyn, 1970. 140p. 70-26,093.

13.2 TRAFFIC SAFETY

872. Brown, Robert Lowes. Competition and the Florida automobile insurance plan. Florida, 1970. 128p. 71-12,737.

873. DeSantis, Richard Phillip. A descriptive study of strategies used in three dissimilar communication campaigns for the purpose of making generalized applications to the field of traffic safety. Michigan State, 1970. 155p. 71-11,817.

874. Emery, Marie Therese (Sister). A study of certain factors related to the patterns of driving, accident and violation rates of 436, 17 and 18 year-old licensed drivers from two Lansing Catholic schools. Michigan State, 1969. 137p. 70-15,021.

875. Erickson, Carl Oscar. A study of administrative practices and policies for high school driver education in Illinois. Illinois State, 1970. 193p. 71-3954.

876. Fitzsimmons, James Albert. Emergency medical systems: a simulation study and computerized method for employment of ambulances. California (Berkeley), 1970. 227p. 71-618.

877. Fruchter, Dorothy Anne Sewell. The home-completion test as a learning device for driver license renewal applicants. Texas, 1970. 100p. 71-11,535.

878. Haefner, Lonnie Edward. Optimal statistical decisions in highway safety related to geometric design. Northwestern, 1970. 276p. 71-10,122.

879. Hakkert, A.S. Road accident patterns and the measures they suggest for increasing road safety. London, 1969.

880. Hall, David Carroll. A study of the effectiveness of two teaching techniques in driver education considering ethnicity, socioeconomic status, and sex as contributing sources of variation. New Mexico State, 1969. 105p. 70-11,512.

881. Keller, Hartmut Ernst Max. An analysis of freeway emergency service systems. California (Berkeley), 1969. 199p. 70-13,080.

882. McDaniel, Charles Emmette. A study to compare the relative effectiveness of selected laboratory and classroom programs

in driver and traffic safety education. Michigan State, 1970. 264p. 71-11,913.

883. McDonald, Harry Lang. Problems of a select group of older drivers. Michigan State, 1970. 107p. 71-2118.

884. McPherson, Kenard. A systematic analysis of traffic education for beginning motorists. Michigan State, 1970. 223p. 70-20,494.

885. Mills, Robert Clayton. A survey of opinions of secondary school principals toward the driver education programs offered in the public schools of the state of Michigan. Michigan State, 1970. 255p. 71-11,924.

886. Murray, Michael Leroy. Utility analysis and the selection of an automobile collision insurance deductible. Oregon, 1970. 224p. 71-1335.

887. Olsen, Richard A. Detection of events in the visual periphery during pursuit tracking in long-term performance and in hypnotically induced fatigue. Pennsylvania State, 1970. 153p. Issued by the University's Transportation and Traffic Safety Center, September 1970.

888. Paletz, David Leon. Influence in Congress: an analysis of the nature and effects of conference committees utilizing case studies of poverty, traffic safety, and congressional redistricting legislation. California (Los Angeles), 1970. 571p. 70-22,821.

889. Richards, William Thomas. An analysis of university problems and needs in the professional preparation of traffic and safety specialists. Wisconsin, 1970. 323p. 71-3484.

890. Ritzel, Dale Owen. The development of an evaluation instrument relating to teacher effectiveness in driving simulation. Southern Illinois, 1970, 247p. 71-10,053.

891. Schulz, August John. Construction of an altitude scale for male adolescent motor vehicle traffic offenders and non-offenders. New York. 1969. 190p. 70-748.

892. Weaver, Jack Kent. A comparison of the Drivocator system and the conventional classroom method of instruction for accomplishing driver and traffic safety education objectives. Florida State, 1970. 140p. 71-7130.

893. Weber, Donald Chester. A stochastic model for automobile accident experience. North Carolina State (Raleigh) 1970. 148p. 70-18,984.

894. Weinstein, Sanford Arthur. Recognition of photographed traffic hazards as an indicator of automobile accident involvement. Columbia, 1970. 125p. 71-8972.

895. Wintrode, Nevin Leroy. An evaluation of the effect of a communication model designed to improve development of desirable attitudes toward safe driving. West Virginia, 1969. 195p. 70-6318.

14.0 URBAN TRAVEL ANALYSIS

896. Demetsky, Michael John. An investigation of the application of behavioral concepts in the formulation of areawide modal demand analysis models. Carnegie-Mellon, 1971. 214p. 71-9678.

897. Deutschman, Harold Daniel. Towards an operational model of residential location. Northwestern, 1969. 218p. 70-38.

898. Eliot Hurst, M.E. Land use and traffic generation in urban areas, with particular reference to Perth. Durham, 1966.

899. Fan, Kenneth Kuan-Ling. A study of the relation of the change of vehicular travel time and size of population to the change in number and types of trips among communities. Utah State, 1969. 148p. 70-2394.

900. Fruin, John Joseph. Designing for pedestrians a level of service concept. Polytechnic Institute of Brooklyn, 1970. 151p. 70-26,049.

901. Ginn, James Royce. Transportation considerations in an individual's activity system. Northwestern, 1969. 177p. 70-6465.

902. Gur, Yehuda Jacob. An accessibility sensitive trip generation model. Northwestern, 1971.

903. McGillivray, Robert Gordon. Binary choice of transport mode in the San Francisco Bay Area. California (Berkeley), 1969. 55p. 70-6162.

904. Nakkash, Tamman Zaki. Activity-accessibility models of trip generation. Purdue, 1969. 220p. 70-3945.

905. Penn, William M., Jr. Differences between the "perceived costs" and "resource costs" of urban passenger transportation and their effects upon the choice of travel mode - with special application to the Baltimore area in 1962. Duke, 1969. 160p. 70-2165.

906. Schmidt, Joseph William, Jr. Comparison of urban trip generation equations. West Virginia, 1969. 161p. 69-20,714.

907. Shaughnessy, Thomas William. The influence of distance and travel-time on central library use. Rutgers, 1970. 244p. 71-3100.

908. Shuldiner, Paul William. Traffic generating characteristics of urban residences. California (Berkeley), 1961.

909. Stutz, Frederick Paul. Spatial analysis of urban inter-residential social trip flows. Michigan State, 1970. 164p. 71-11,986. Lansing data.

910. Trzepacz, Mathew Edmond. Household trip production: a comparison of three urban areas in upstate New York. Rensselaer, 1970. 191p. 70-19,954.

14.1 COMMUTING

911. Catanese, Anthony James, Jr. The separation of home and work place in urban structure and form: a longitudinal analysis of two urban regions. Wisconsin, 1969. 394p. 69-12,350.

912. Davies, Christopher Shane. The reverse commuter transit problem in Indianapolis. Indiana, 1970. 166p. 70-22,829.

913. Grimes, Algie Ray, Jr. An analysis of the determinants of the commuting and residence patterns of the Oklahoma City Air Material Area labor force. Oklahoma State, 1970. 168p. 71-11,158.

914. Halvorson, Peter Leon. Residential location and the journey-to-work: Charleston, West Virginia. Cincinnati, 1970. 243p. 71-1514.

915. Leigh, R. The journey to work to central London 1921-1951: a geographical analysis. London, 1968.

916. Mouchahoir, George Ely. The relationship of work trips to employment connected social and economic factors. Georgia Institute of Technology, 1970. 157p. 71-12,359. Also distributed by NTIS (PB 197816).

917. Scarlett, Maurice John. The travel behaviour of urban commuters. Pittsburgh, 1970. 241p. 70-24,214.

918. Yu, Eui Young. Correlates of commutation rates in large metropolitan areas: multivariate analysis of data for the United States, 1960. Pennsylvania, 1969. 230p. 69-21,464.

15.0 PHYSICAL DISTRIBUTION

919. Dicer, Gary Norman. Toward a theory of international logistics. Indiana, 1969. 262p. 69-21,647.

920. Lynagh, Peter M. Physical distribution patterns for the metal service center industry. Michigan State, 1970. 215p. 71-2111.

921. Rider, Graham Wharton. An exploration of the concept of logistics: a constitutive approach. Arizona State, 1970. 210p. 70-20,911.

922. Whittington, Frederick Brown, Jr. Classificatory analysis of urban physical distribution activity. Louisiana State A&M, 1969. 239p. 70-274.

15.1 WAREHOUSING

923. Khumawala, Basheer Ahmad. An efficient branch and bound algorithm for warehouse location. Purdue, 1970. 162p. 71-2630.

924. Van Auken, Stuart. A new gravitational approach to least transportation cost warehouse location. North Texas State, 1970. 242p. 71-574.

16.0 SCHOOL TRANSPORTATION

925. Bloom, Morris. An analysis of the administration of the pupil transportation program in the City of New York. New York, 1968. 382p. 70-2468.

926. Bonnes, Robert Thomas. Public school pupil transportation in Arizona, Arizona State 1970. 127p. 70-21,948.

927. Newton, Rita Mochan. Bus routing in a multi-school system. State University of New York (Buffalo), 1970. 138p. 71-6097.

NUMBER OF ENTRIES, BY U.S. UNIVERSITY, CUMULATED FOR THREE BIBLIOGRAPHY ISSUES

55 Northwestern

40 Indiana

38 California (Berkeley)

37 Purdue

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33 Michigan State

32 Harvard

31 Washington

27 Illinois, Ohio State, Stanford

24 Wisconsin

23 Michigan

20 Texas A & M

19 California (L.A.), Pennsylvania

18 M.I.T.

15 Chicago

14 New York

13 Pennsylvania State, Pittsburgh, Texas

12 Minnesota, North Carolina

11 American, Cornell

10 Syracuse

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8 Arizona State, Arkansas, Iowa, Princeton, Virginia

7 Alabama, Colorado, Maryland, Southern California

6 Georgia, Iowa State

5 Case-Western Reserve, Oklahoma State, Polytechnic Institute of Brooklyn, Tennessee

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GEOGRAPHIC INDEX

An (h) following an entry number indicates an historical viewpoint. Due to the prevalence of American topics "United States" is not listed. Named canals are listed in this index, but not in the Subject Index.

Africa, 652
Appalachia
  roads, 839
  V/STOL, 695
Arizona
  costs, 655
  school transportation, 926
Baltimore
  mode choice, 905
California
  airline regulation, 699
Canada
  costs, 654
Central America
  railroads, 778 (h)
Ceylon
  railroads, 765
Chicago
  airports, 717
Colombia, 693 (h)
Delaware Valley
  shipbuilding, 793 (h)
Developing areas, 682
  air transportation, 700
  plant location, 676
District of Columbia
  airports, 719
Erie Canal, 805 (h)
Ethiopia
  air transport, 700
Europe
  agricultural products, 649
Florida Cross-State Canal, 804 (h)
Germany
  railroads, 775 (h), 784 (h)
Ghana
  ports, 794 (h)
Great Britain
  administration, 653
  airports, 716
  railroads, 771 (h)
  roads, 823 (h)
  shipping, 792 (h)
Guyana
  tourism, 656
Hawaii
  ranching, 697
Honduras
  roads, 840
Illinois
  road administration, 824
India, 676
  ports, 795
  road transport, 735
  roads, 828
Indiana
  exports, 678
Indianapolis
  commuting, 912
Ireland, 667
Ivory Coast, 660
Jamaica
  shipping, 792 (h)
  tourism, 656
Kansas
  roads, 845
London
  journey to work, 915
Los Angeles
  transit, 820
Massachusetts
  roads, 833
Mexico
  roads, 841
Mississippi River, 801 (h)
New York State
  airports, 724
  transport impact, 651
Northeast Corridor, 650, 664, 665
  rail passenger service, 704
Ohio River, 801 (h)
Oklahoma City
  commuting, 913
Ozarks region, 838
Panama Canal, 806 (h)
Peru
  automotive industry, 750
St.Lawrence Seaway, 803
San Francisco
  freeway cost, 852
  mode choice, 903
Seattle
  port, 797
South Dakota
  railroads, 762
Tennessee, 694 (h)
Thailand
  roads, 835
Trieste
  port, 798
Trinidad
  tourism, 656
Utah
  railroads, 777 (h)
Vancouver
  port, 799
U.S.S.R.
  merchant marine, 785
  railroads, 774 (h), 779 (h), 782 (h)
  wood products, 755
Venezuela
  roads, 842

SUBJECT INDEX

An (h) following an entry number indicates an historical viewpoint. Named canals are listed in the Geographic Index.

Adams, Charles Francis, Jr., 783
administration, 653
  roads, 824, 826, 833
  school transportation, 926
agricultural products, 649, 669, 687; also corn, grain, potatoes, soybeans
Air Line Pilots Association, 727
air traffic control, 720, 721, 723
  controllers, 718
ambulances, 809, 876
Atchison, Topeka and Santa Fe Railway, 763
barge transport, 802
behavioral studies
  urban travel, 896, 901, 904, 917
bridges, 796, 843
buses, 819; also school transportation, 925-927
  regulation, 732 (h)
  routing, 927
  scheduling, 821

capacity
  urban transportation, 814
central places, 663, 681
Chesapeake Bay Bridge, 843, 851
Cisneros, Franciso Javier, 693
coal
  rail transport, 757
commodity flow, 647, 657
competition
  automotive industry, 743 (h)
containerization, 675
corn, 657, 679
costs, 654-655
  commodity network, 647
  grain transport, 788
  rail, 758-759, 781
  shipping, 792 (h)
  urban travel, 905
  warehouse location, 924

demand, 680
  air freight, 713
  airline, 716
  urban travel, 896
  used automobiles, 739
Dial-a-Bus, 821
drivers and driving, 833
  accidents, 874, 879, 893-894
  education, 875, 877, 880, 882, 884-885, 890, 892-893
  fatigue, 887
  headways, 867
  information system, 859
  merging, 862, 864
  passing, 867
  violations, 891
Drivocator, 892
emergency services, 881; also ambulances
employment
  roads and, 838
  transportation and, 673
  urban transportation and, 811, 916
Ford Motor Company, 754
freight cars, 757
  investment, 766

gasoline stations, 740
grade crossings, 760
grain, 788
Great Britain. Supply and Transport Committee, 767
guideways, 812, 817
ice cream, 736
Illinois Central Railroad labor, 768 (h)
insurance
  automobile, 872, 886
intermodal ownership, 661
International Air Transport Association, 709, 710
International Civil Aviation Organization, 708
intersections, 860, 863
investment, 666
  bridges, 796, 843
  freight cars, 766
  railroads, 772 (h)
  roads, see 843-852

land use, 651
  urban transport and, 808
  urban travel and, 898
leasing
  automobiles, 745
libraries
  travel-time to, 907
locomotives, 773 (h)
logistics, see physical distribution, 919-922
McDonnell-Douglas Corporation, 729
marketing
  airline, 705
mergers
  railroad, 761, 780
metals
  distribution, 920
mode choice
  freight, 683
  urban travel, 903, 905
moving companies, 734

National Forest Road System, 849, 850
Nayarit-Jalisco Highway, 841
New York, New Haven and Hartford Railroad, 770 (h)
Northern Pacific Railway Company
  locomotives, 773 (h)
Ohio. Department of Highways
  field crews, 829
parking, 858, 861
pedestrian movement, 900
pilots, 727, 728
Port of New York Authority, 796
potatoes, 682

rates
  airline, 698, 710
  computerized, 645
  rail, 769 (h)
  soybeans, 684
regulation
  airline, 696, 699, 711, 712
  automotive industry, 741, 746
  bus, 732
  rail, 769 (h)
  truck, 733
residential location, 897
Road Traffic Acts, 732
routes
  airline, 712
  planning, 646
  road location, 827
  selection, 813
routing
  school buses, 927
  tank ships, 786
Rutland Railroad, 781
St.Louis-San Francisco Railway System, 776
scheduling
  airline, 701, 706
  airline crews, 707
  passenger service, 691
  rail commuter, 822
  tank ships, 787
social impact, 664
  freeways, 832
  road transport, 735
  roads, 841
Southern California Rapid Transit District, 820

Southern Pacific Railroad, 763
soybeans, 684
Stevens, John F., 779
supplemental airlines, 704
tank ships
  routing, 786
  scheduling, 787
taxation
  motor carriers, 734
Teamsters Union, 738
terminals, 689
tourism, 656, 671
tow boats, 800
traffic assignment, 857, 868
tramp ships, 790
Transporter's Association, Ivory Coast, 660
travel, 670; also mode choice, tourism, trip generation, trip purpose, urban travel analysis, 896-910
  forecasting, 648
  time factors, 692, 825, 899, 907
trip generation, 898, 902, 904, 906, 908-910
trip purpose; also commuting, 911-918
  social, 909
Tri-State Transportation Commission, 810

Ugarit text, 791
Union Traction Company of Indiana, 818
United Automobile Workers, 751
U.S. Civil Aeronautics Board, 712
U.S. Travel Service, 671
urban freight, 922
V/STOL, 695
wood products, 755

CUMULATED AUTHOR INDEX

1-476, first issue; 477-644, second issue; 645-927, third issue

Aangeenbrug, R.T. 404
Aaron, T.D. 580
Abernathy, L.M. 95
Abo-Baker, A.A.A. 477
Abrahamsson, B.J. 223
Ackerman, S.R. 739
Adams, R.T. 79
Adler, P. 188
Agapos, A.M. 429
Agnello, R.J. 843
Ahmed, S.B. 1
Akers, F.C. 122
Albert, W.I. 823
Albro, M. 769
Alcaly, R.E. 514
Allen, W.B. 518
Allman, W.P. 157
Almond, G.L. 416
Altman, S.M. 370
Alvarez, E. 197
Ammassari, P. 146
Amoah, F.E. 794
Anderson, A.A. 576
Anderson, D.G. 103
Ansari, N.A. 55
Appleton, J.H. 2
Ardakanian, A.A. 614
Arnold, T.R. 738
Aronne, J.F. 88
Asfahl, C.R. 645
Ashbaugh, J.G. 237
Ashmawy, S.E. 279
Ashton, W.D. 853
Assael, H. 123
Athay, R.E. 785
Axelrod, D. 447
Ayad, H.A. 468
Babcock, H.A. 807
Baehr, G.B. 770
Bailey, J.A. 312
Baker, R.L. 615
Baldo, F.V. 544
Balkus, K. 630
Barber, H.E. 804
Barghothi, J.I. 581
Barngrover, C.L. 56
Barr, B.M. 755
Barrow, R.V. 457
Barsness, R.W. 238
Bartlett, H.C. 57
Bateman, J.F. 272
Battaglia, S.T. 532
Battle, C.T. 380
Bauer, K.W. 315
Baughman, J.P. 233
Bauman, R.D. 453
Bayliss, B.T. 104
Beimborn, E.A. 478
Benn, B.A. 158
Bennett, W.B. 124
Berg, W.D. 824
Bergmann, D.R. 756
Bess, H.D. 433
Best, A.C.G. 159
Bettinger, C.O. 854
Betz, M.J. 27
Beuthe, M.V. 479
Bhalla, B.B. 254
Bieber, A. 3
Billheimer, J.W. 646
Bilstein, R.E. 99
Bingham, R.C. 160
Birdsall, S.S. 609
Bishop, A.B. 832
Black, C.A. 330
Black, W.R. 545
Blackburn, A.J. 4
Blood, D.W. 4A
Bloom, M. 925
Bodiya, N.G. 125
Bonavia, M.R. 771
Bonnes, R.T. 926
Boone, J.W. 757
Boxer, B. 239
Boyce, B.N. 601
Boyce, D.E. 385
Boyce, R.R. 280
Bozoki, G. 647
Brach, P.L. 825
Bradford, C.H. 331
Brantl, C.M. 126
Brenner, R. 616
Brewer, K.A. 617
Brill, E.A. 855
Brilliant, A.E. 152
Brodsky, H. 405
Brown, D.A. 480
Brown, P.R. 546
Brown, R.L. 872
Brown, R.T. 28
Browne, W.G. 501
Brownlee, R.E. 127
Bruins, R.G. 729
Buckley, A.E. 80
Buckwell, L.J. 758
Buehler, V.M. 96
Buergenthal, T. 708
Buhr, J.H. 371
Bullen, A.G. 618
Burch, F.W. 198
Cabot, A.V. 448
Caine, S.P. 437
Capelle, D.G. 352
Carroll, J.L. 255
Carson, R.B. 438
Carstens, R.L. 296
Carter, E.C. 695
Case, L.S. 582
Caspi, A. 751
Catanese, A.J. 911
Caudill, E.G. 547
Cermakian, J. 450
Chatfield, B.V. 826
Chatterjee, A. 648
Chen, C. 759
Cheng, P.C. 224
Cherry, R.L. 297
Chitwood, S.R. 298
Chuang, R.Y. 709
Churchill, G.A. 5
Clark, C.H. 199
Clark, J.E. 462
Clark, S.A. 200
Clark, W.D. 105
Claus, J. 740
Clement, D.E. 161
Coates, N. 147
Cochran, D.L. 502
Cockfield, R.W. 808
Colcord, F.C. 299
Cole, L.M. 332
Cooper, A.J. 97
Cotroneo, R.R. 439
Cotterman, W.W. 713
Cottingham, P.H. 602
Cox, A.A. 128
Coyle, J.J. 6
Cramer, C. 275
Crandall, R.W. 533
Crane, S.R. 333
Crawford, G.M. 201
Croll, R.F. 741
Crowther, S.J. 793
Cummings, L.P. 420
Cunningham, R.J. 418
Curtis, R.A. 225
Cutler, I. 29
Dafermos, S.C. 631
Dake, J.L. 610
D'Ambrosio, C.A. 162
Daniel, N.E. 89
Danielson, M.N. 313
Darby, L.F. 733
Darden, B.R. 129
Dare, C.E. 625
Darnton, D.C. 240
Dart, O.K. 372
Dartnell, A.L. 523
Davies, C.S. 912
Davis, G.M. 481
Davis, J.L. 300
Dawson, R.F. 353
Decker, L.E. 202
DeFelice, F. 475
DeHayes, D.W. 482
Demakopoulos, S.A. 714
Demetsky, M.J. 896
Derby, W.E. 241
DeSalvo, J. 483
DeSantis, R.P. 873
Desmarais, R.H. 767
Deutsch, S.E. 148
Deutschman, H.D. 897
Devanney, J.W. 484
DeWald, C.G. 856
Dial, R.B. 857
Dicer, G.N. 919
Dicesare, F. 817
Dick, T.J.O. 772
Dickason, D.G. 795
Dickey, J.W. 469
Dickinson, E.H. 561
Dickinson, J.N. 585
Dippel, R.G. 58
Doganis, R.S. 716
Doherty, R.P. 717
Dohlen, G.N.v. 796
Doig, J.W. 301
Dommel, P.R. 833
Donahue, H.J. 485
Dorsey, J.W. 149
Draine, E.H. 30
Drew, D.R. 354
Driemeier, D.H. 524
Drost, J.L. 752
Drucker, R.W. 7
Dueker, K.J. 281
Duriez, P. 189
Durr, F.R.E. 163
Dyckman, T.R. 130
Eads, G.C. 516
Eager, W.R. 355
Eckert, R.D. 589
Edwards, C.E. 131
Edwards, J.D. 458
Eicher, J.P. 760
Elaassar, S.E. 649
Eliot Hurst, M.E. 898
Ellett, J.S. 734
Ellis, L.T. 49
Ellis, R.H. 590
El-Mezawie, A.A.E. 800
Elwell, H.H. 503
Emerson, C.R. 858
Emery, M.T. 874
Erb, E.C. 611
Erickson, C.O. 875
Fabris, R.H. 132
Faden, A.M. 282
Fairburn, D.T. 470
Fan, K.K. 899
Farness, D.H. 486
Feldman, L.P. 133
Fernald, E.A. 586
Filante, R.W. 805
Filgas, J.F. 121
Finley, B.W. 443
Fishbaugh, C.P. 445
Fishlow, A. 203
Fitzsimmons, J.A. 876
Fleischer, G.A. 323
Flink, J.J. 153
Flood, K.U. 106
Fogel, R.W. 204
Folkman, D.I. 562
Fortin, L.H. 430
Franklin, P.E. 563
Freitas, L.P. 59
Freund, P.F. 302
Frey, R.L. 773
Friedlaender, A.F. 334
Friedlander, A.E 595
Friedman, C.S. 134
Fruchter, D.A.S. 877
Fruhan, W.E. 696
Fruin, J.J. 900
Fuller, J.W. 525
Fuller, J. 205
Gabbour, I.I. 471
Gabler, L.R. 335
Gallamore, R.E. 761
Gamal El-Din, M.K. 548
Gamba, J.C. 650
Gandre, D.A. 242
Garnel, D. 118
Gauthier, H.L. 607
Gellman, A.J. 504
George, P.J. 549
Gerig, F.A. 463
Gessaman, P.H. 651
Gieselman, R.D. 742
Giffin, W.C. 303
Gilster, H.L. 505
Ginn, J.R. 901
Glab, J.E. 652
Glaskowsky, N.A. 519
Gold, A.J. 421
Goldrick, M.K.D. 653
Goodnuff, J.L. 373
Goodwin, H.M. 603
Gordon, D.I. 206
Gottleber, H.A. 521
Gotwals, J.I. 283
Gould, R.B. 834
Graham, B.S. 718
Granzin, K.L. 644
Gratto, C.P. 386
Grava, S. 284
Graves, B.D. 587
Gray, R.D. 267
Grecco, W.L. 387
Greenwood, G.W. 388
Greenwood, P.W. 487
Grey, A.H. 207
Grimes, A.R. 913
Gronau, R. 431
Grubbs, C.M. 336
Gunderson, G.A. 446
Gur, Y.J. 902
Haefner, L.E. 878
Hafner, J.A. 835
Haites, E.F. 801
Hakkert, A.S. 879
Hales, D.B. 619

Hall, D.C. 880
Hall, J.W. 836
Hall, R.W. 753
Hall, W.K. 809
Hallin, R.R. 810
Halvorson, P.L. 914
Hamburg, J.F. 762
Hammelton, R.L. 243
Hammer, K.M. 208
Hammond, W.E. 268
Hanft, R.M. 7A
Hanken, A.F. 381
Hanon, B.B. 135
Hanten, E.W. 90
Harder, K.P. 558
Hardwick, W.G. 31
Harmon, G.M. 273
Harral, C.G. 735
Harris, C.E. 60
Hartman, P.T. 251
Hartwick, J.M. 654
Hauer, E. 596
Hauswald, E.L. 8
Haveman, R.H. 256
Hawkes, A.G. 356
Hayman, R.W. 604
Haynes, J.J. 374
Haywood, R.M. 774
Heathington, K.W. 859
Heaver, T.D. 32
Hebert, E.J. 61
Hedges, C.A. 337
Heidorn, R.D. 304
Heimbach, C.L. 389
Hejal, S.S. 847
Helmers, H. 136
Helvig, M. 526
Hemmens, G.C. 390
Hendrickson, H.S. 150
Hensen, R.J. 591
Herrin, G.W. 62
Hershdorfer, A.M. 357
Heyl, R.J. 33
Hicks, N.L. 638
Higa, S. 164
Hill, M. 285
Hille, S.J. 165
Hoel, L.A. 286
Hoffman, D.S. 775
Holcomb, K.J. 166
Hold, W.T. 628
Holden, N.D. 476
Hopkins, G.E. 727
Horna, H. 693
Horton, F.E. 391
Horton, G.R. 167
Hoshi, T. 860
Hoyt, H.M. 350
Hruby, R.J. 168
Huang, D.S. 137
Hudson, D.V. 588
Hughes, W. 63
Humphreys, J. 620
Hurt, B.E. 209
Hussein, M.F. 305
Hutcheon, W.R. 797
Hutchinson, J.G. 138
Hutchinson, J.W. 382
Hynes, C.V. 34
Igoe, R. 244
Isibor, E.I. 837
Israel, A. 9
Jakubauskas, E.B. 190
Janelle, D.G. 10
Jardim, A. 154
Jarett, I.M. 107
Jeffress, P.W. 811
Jenkins, G.M. 697
Jensen, J.M. 50
Jessvein, W.A. 564
Johannsson, K. 786
Johnson, D.S. 210
Johnson, E.S. 577
Johnson, J.A. 257
Johnson, L.R. 844
Johnson, L.A. 754
Johnson, M.B. 287
Johnson, T. 252
Jones, D.N. 488
Jones, J.R. 655
Jones, J.F. 656
Jones, P.A. 550
Jordan, J.M. 657
Jordan, W.A. 506
Jorgensen, C.J. 51
Joun, Y.P. 64
Jouzy, N.C. 383
Joy, O.M. 698
Joy, S.C. 169
Joyce, G. 392
Kahn, A.M. 658
Kain, J.F. 406
Kamien, M.I. 191
Kanafani, A. 861
Kansky, K.J. 11
Karkar, Y.N. 211
Kasoff, M.J. 639
Katz, H. 743
Keller, H.E.M. 881
Kelly, C.A. 12
Kerr, K.A. 212
Khoury, N.T. 534
Khumawala, B.A. 923
Kimani, S.M. 407
King, J.W. 258
Kinney, A.R. 35
Kirk, B.M. 862
Kissling, C.C. 421A
Kittrell, F.J. 744
Kleiger, L.J. 65
Klein, F.R. 572
Kleu, S.J. 139
Kloer, C.D. 551
Knauerhase, R. 234
Knowles, H.P. 170
Koepke, R.L. 36
Kolko, G.M. 213
Kolsen, H.M. 171
Koshal, R.K. 172
Kriebel, W.R. 108
Krolick, R.H. 192
Kruger, P.W.B. 288
Kuehn, J.A. 838
Kuhn, H.A.J. 454
Laber, G.E. 13
Lago, A.M. 421B
Lakshmanan, T.R. 289
Lam, T.N.C.Y. 472
Lamb, S.W. 845
Lambe, T.A. 640
Lane, J.E. 173
Lapin, H.S. 846
Latchford, J.C.R. 375
Latta, L.M. 530
Lave, C.A. 632
Lawrence, P.A. 699
Lawrence, S.A. 226
Leahy, E.P. 578
Lean, D.F. 535
LeBaron, A.D. 338
Leclerc, W. 436
Lee, N. 174
Lehoczky, J.P. 863
Leidecker, J.K. 700
Leigh, R. 915
Leighton, A.C. 52
Leimkuhler, F.F. 109
Leininger, W.J. 259
Leone, R.D. 531
Lev, B. 659
Levin, M. 864
Levin, T.H. 81
Levy, J. 14
Lewis, B.C. 660
Lewis, J.E. 37
Lewis, R.J. 413
Lewis, R.M. 376
Lieb, R.C. 661
Lightner, D.L. 768
Likens, J.D. 719
Linder, E. 791
Linton, T.E. 151
Lisco, T.E. 408
Little, R.S. 358
Loewenstein, L.K. 409
Long, W. 66
Loubal, P.S. 633
Lubore, S.H. 787
Ludwig, A.K. 38
Lumsden, K.G. 565
Lund, J.W. 473
Lund, L. 410
Lynagh, P.M. 920
Lynch, L.K. 411
Lytle, J.S. 39
McAfee, W.M. 214
McArthur, J.H. 274
McBride, G.A. 839
McCall, J.B. 763
McCallum, G.E. 175
McCarney, B.J. 422
McCutcheon, W.A. 260
McDaniel, C.E. 882
McDonald, H.L. 883
McDonald, H.J. 788
McDonald, W.S. 818
MacDonald-Taylor, W.K.R. 423
McDonough, C.C. 599
McFarland, W.F. 848
McGillivray, R.G. 903
McGough, B.C. 324
McInnes, A.T. 276
MacIntosh, J.A. 15
McKeever, J.L. 339
McKinnell, H.A. 520
Mackinnon, R.D. 489
McLaughlin, F.M. 253
McLaughlin, W.A. 393
McLeary, J.W. 110
McMahon, J.A. 710
McPherson, K. 884
McShane, W.R. 626
Maddison, D. 720
Makinen, G.E. 536
Manheim, M.L. 827
Marcus, H.S. 789
Margolis, H.A. 537
Maricle, K.E. 745
Martinson, T.L. 840
Mastrianna, F.V. 583
Matthias, J.S. 424
Matzzie, D.E. 597
Maurer, M. 245
Maxfield, D.W. 425
Mercer, C.R. 340
Mercer, L.J. 215
Mergen, B.M. 568
Mertins, H. 662
Messer, C.J. 869
Metaxas, B.N. 790
Meuter, R.F. 663
Meyburg, A.H. 664
Meyer, D.J. 449
Mihelić, D. 798
Mikhail, A.D. 67
Miklius, W. 111
Miller, A.J. 359
Miller, D.R. 452
Miller, E.A. 40
Miller, E.T. 465
Miller, F.D. 459
Miller, J.C. 701
Miller, R.C. 246
Miller, R.E. 68
Miller, R.F. 112
Mills, R.C. 885
Miner, H.C. 776
Miyagi, M. 702
Mize, J.L. 507
Mock, W.L. 141
Montgomery, C.C. 490
Mooney, C.E. 261
Moore, C.N. 142
Moore, C.T. 341
Moore, T.D. 342
Morehouse, T.A. 592
Morgan, E. 216
Morlok, E.K. 16
Morwedge, H. 569
Motes, W.C. 491
Mouchahoir, G.E. 916
Munro, J.M. 41
Murray, M.L. 886
Nakkash, T.Z. 904
Narodick, K.G. 84
Neisser, A.C. 143
Nell, R.E. 517
Nelson, S.R. 746
Nemeth, Z.A. 621
Neuzil, D.R. 394
Newnan, D.G. 316
Newton, R.M. 927
Newton, W.P. 100
Nielsen, E.S. 552
Niemeyer, G.A. 155
Nihan, N.L. 665
Niklaus, J.L. 474
North, R.N. 492
Nupp, B.L. 17
O'Brien, B.R. 317
Ochoa-Rosso, F. 666
O'Connell, W. 176
O'Connor, A.D. 812
O'Connor, A.M. 177
O'Connor, W.E. 711
Odoni, A. 721
Odum, E.D. 217
O'Dwyer, T. 493
Ohl, A.W. 269
Olmsted, H.J. 178
Olsen, R.A. 887
Olson, K.W. 849
Olson, S.H. 218
Oppendahl, R.A. 451
Oppenlander, J.C. 360
Orion, H. 85
O'Sullivan, P.M. 667
Osuna, E.E. 819
Paden, D.L. 91
Paletz, D.L. 888
Panyan, W.D. 870
Park, R.E. 668
Parker, A.J. 669
Parks, R.J. 440
Parks, R.N. 351
Parris, H.W. 219
Parsonson, P.S. 395
Patterson, J.M. 227
Patton, E.P. 527
Payne, B.R. 850
Pearson, P.M.L. 670
Pendleton, W.C. 325
Penn, W.M. 905
Perle, E.D. 18
Perry, P.L. 247
Pestalozzi, G. 92
Peters, W.H. 538
Petersen, D.L. 554
Peterson, T.C. 820
Petrowski, W.R. 220

Pillsbury, W.A. 326
Pinnell, C. 377
Platt, N.M. 93
Poinsette, C.R. 270
Polenske, K.R. 19
Pomeroy, L.K. 712
Pontney, J.A. 144
Pool, J.C. 841
Porter, H. 396
Powers, T.F. 671
Prawda, J. 672
Prieve, E.A. 306
Pulley, K.M. 553
Putman, S.H. 673
Quarmby, D.A. 641
Raciti, S.J. 494
Rae, J.D. 262
Ramm, W. 747
Randall, R.H. 703
Ranlett, J. 440A
Ransom, R.L. 271
Rapp, J.E. 343
Rapping, L. 230
Rashba, S.F. 871
Raymond, S. 397
Rea, J.C. 813
Reckerd, T.E. 704
Reddy, M.S. 361
Redenius, C.M. 522
Reeder, C.A. 777
Reichman, S. 69
Rethwisch, K.C. 539
Reynolds, D.R. 398
Reynolds, J.I. 70
Richard, A.C. 806
Richards, W.T. 889
Richter, C.E. 674
Rickards, A.E. 86
Riddle, W.E. 736
Rider, G.W. 921
Ridgley, R.H. 441
Ridley, T.M. 20
Ringrose, R. 53
Ritzel, D.O. 890
Roberson, J.W. 221
Roberts, P.O. 21
Roberts, R.C. 119
Robeson, J.F. 414
Robinson, R. 799
Robinson, S.E. 42
Roggeveen, V.J. 179
Roman, J.R. 764
Romine, L.E. 193
Rosa, E. da 344
Rose, W. 71
Rosen, S. 194
Rosenberg, L.C. 277
Ross, D.G. 778
Rossi, T.A. 528
Rothstein, M. 508
Rowan, N.J. 362
Ruchlin, H.S. 570
Saatcioglu, Ö. 814
Sachdev. L.S. 828
Sachs, A. 180
Sackrey, C.M. 75
Safford, J.J. 573
St.John, J.D. 779
Salzborn, F.J.M. 822
Sanders, E.G. 566
Santow, L.J. 278
Sattari-Tehrani, H. 181
Satterly, G.T. 363
Saunders, R.L. 780
Sauter, J.V. 612
Scarlett, M.J. 917
Schary, P.B. 87
Scheiber, H.N. 54
Scheiner, W.W. 364
Schlacter, J.L. 829
Schmidt, J.W. 906
Schmidt, R.H. 608
Schneider, L.M. 307
Schoell, W.F. 802
Schoennauer, A.W.W. 72
Schofer, J.L. 593
Schonberger, H.B. 499
Schultz, C.R. 222
Schultz, R.L. 705
Schultz, T.G. 318
Schulz, A.J. 891
Schuster, J.J. 399
Schwar, J.F. 290
Schwartz, N.L. 263
Scott, A.J. 495
Scott, B.Y. 345
Scrafton, D. 598
Segelhorst, E.W. 314
Seguin, V.C. 675
Seidman, D.R. 365
Sen, L. 676
Sequin, C.J. 22
Shafer, C.E. 43
Shaffer, N.M. 248
Shaner, W.W. 346
Sharp, J.F. 23
Shaughnessy, T.W. 307
Shaw, G.C. 706
Shaw, R.B. 113
Sherwood, A.R. 460
Shin, T.S. 730
Shinn, R.D. 722
Shirley, R.E. 114
Shorrock, R.W. 865
Shortreed, J.H. 366
Shoup, D.S. 446A
Shuldiner, P.W. 908
Shunk, G.A. 642
Sieck, L.K. 367
Sigmund, E.W. 195
Silberberg, E. 264
Simons, N. 347
Simons, R.M. 728
Simpson, R.W. 723
Singh, V. 613
Sinha, K.C. 622
Sleeper, D.C. 182
Sloane, A.A. 120
Smerk, G.M. 594
Smith, B.L. 400
Smith, E.G. 319
Smith, R.D. 781
Smith, W.H. 378
Snell, J.E. 291
Snow, C.R. 677
Soberman, R.M. 842
Solar, D. 82
Solzman, D.M. 265
Sommers, A.N. 509
Southard, W.R. 500
Sparling, R.L. 678
Spence, V.G. 559
Spencer, J.W. 461
Spindler, Z.A. 540
Spritzer, A.D. 571
Spychalski, J.C. 115
Staelin, R. 748
Stahl, S.W. 94
Stanley, W.R. 44
Steiner, H.M. 320
Sternberg, C.W. 724
Steuart, G.N. 725
Stevens, G.T. 415
Stewart, W.H. 584
Stochaj, J.M. 231
Stockdale, J.M. 749
Stone, C.E. 634
Stopher, P.R.
Stover, V.G. 327
Stowers, J.R. 636
Straszheim, M.R. 76
Strawn, H.B. 679
Strom, H.K. 77
Strombom, D.A. 605
Stuart, M.M. 510
Stucker, J.P. 680
Studnicki-Gizbert, K.W. 432
Stutz, F.P. 909
Sultan, S.M. 308
Sundaralingam, K. 765
Supersad, J.N. 292
Surti, V.H. 629
Swain, H.S. 681
Swaine, H.R. 83
Swann, L.A. 235
Swanson, J.A. 555
Swartz, T.R. 348
Sweetser, A.G. 417
Sydor, L.P. 803
Taiber, D. 682
Tarpley, F.A. 309
Taylor, G.L. 511
Taylor, J.I. 368
Taylor, P.R. 782
Taylor, W.C. 466
Tharp, K.J. 321
Thiriez, H. 707
Thomas, R.P. 156
Thompson, W.A. 419
Thor, H.A. 232
Thorndike, S.L. 293
Thornton, C.A. 694
Thornton, N.B. 851
Thornton, R.L. 515
Tolle, J.E. 866
Tomazinis, A.R. 294
Toscano, F.C. 24
Townsend, H. 683
Trachtenberg, S. 556
Treas, C.E. 384
Triandafyllides, A.P. 78
Trindell, R.T. 249
Troub, R.M. 434
Trueman, R.E. 426
Trzepacz, M.E. 910
Tsurumi, H. 435
Turner, A.K.F. 830
Turton, B.J. 183
Twark, R.D. 328
Uhrig, J.W. 45
Unterwagner, J. 444
Unwin, E.A. 467
Upson, H.R. 783
Van, B.G.
Van Auken, S. 924
Van Zant, L. 442
Vars, R.C. 852
Vaughn, M.D. 512
Velde, P.D. 684
Ventura, J.S. 766
Verghese, K.E. 46
Viets, R.L. 737
Viles, P. 250
Vlasin, R.D. 329
Vodrazka, W.C. 606
Voelker, G.E. 784
Vogel, R.J. 455
Volotta, A. 116
Von Dohlen, G. 579
Vuchic, V.R. 310
Wachs, M. 295
Walgreen, J.A. 228
Walker, H.P. 102
Wallace, N.E. 627
Wallace, R.S. 715
Walterman, T.W. 731
Walton, G.M. 236
Walton, J.R. 322
Walzer, J.F. 428
Warner, L.B. 266
Warner, S.L. 401
Warnshuis, P.L. 369
Wassink, D. 541
Wassom, J.C. 685
Waters, W. 567
Watson, P.L. 686
Wattles, G.M. 25
Wattleworth, J.A. 379
Weaver, J.K. 892
Weber, D.C. 893
Webster, L.A. 623
Wegmann, F.J. 456
Wehr, P.W. 560
Weiner, G. 184
Weiner, S. 867
Weinstein, S.A. 894
Weintraub, A.L. 47
Wellborn, D.M. 117
Westacott, G.H. 750
Westerhold, B. 48
Weston, G.A. 185
Wheat, C.M. 557
Wheeler, J.O. 412
Wheeler, P.K. 600
White, L.J. 542
White, W.C. 26
Whitehead, J.I. 402
Whitehurst, C.H. 229
Whittington, F.B. 922
Whybark, D.C. 98
Wiener, R.S. 624
Wilbanks, T.J. 687
Williams, A.F. 101
Williams, C.G. 196
Williams, T.A. 821
Williams, W.I. 732
Williamson, H.F. 496
Wilson, A.G. 497
Wilson, F.R. 643
Wintrode, N.L. 895
Witayarut, P. 637
Witczak, M.W. 831
Wohl, M. 349
Womer, N.K. 688
Wood, D.F. 726
Woodhull, J. 815
Woods, D.L. 464
Worrall, R.D. 403
Worsley, S. 574
Wortman, R.H. 689
Wright, B.H. 498
Wright, F.J. 311
Wright, R.J. 575
Wright, W.R. 186
Wyand, M.J. 74
Wykoff, F.C. 543
Yagar, S. 868
Yaseen, D.W. 690
Yates, R.C. 792
Young, D.R. 691
Yu, E.Y. 918
Yu, J.C. 513
Yu, T. 145
Yucel, N.C. 427
Zakaria, T. 816
Zane, E.A. 187
Zehr, D.E. 529
Zucker, S. 692